



# CATALOGUE

... OF ...

Plumbers', Tinsmiths',  
✦Roofers' and Mechanics'✦

# TOOLS

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MANUFACTURED BY

JOHN STORTZ & SON,

PHILADELPHIA, PA.



# TO THE TRADE.



In this edition of our Catalogue we include our line of Plumbers', Tinnerns and Roofers' and Kindred Mechanics' Tools. The Catalogue embraces in a comprehensive list, the most salable and desirable articles in this line.

Established since 1853, we can point to a half century of progress, and an out-put of unquestionable superiority, the high standard of excellence will be maintained and improved, and buyers will find our goods give the users, and consequently themselves, the greatest satisfaction.

*To avoid confusion, please discard all former Catalogues, and order by the numbers given.*

## TERMS:

Goods are sold F. O. B. Philadelphia, unless special arrangements are made.

All Bills are due 30 days from date of Invoice, and are subject to Sight Draft after maturity.

Claims must be made within 5 days of receipt of Goods and Invoice.

Yours Respectfully,

**JOHN STORTZ & SON,**

210 and 212 Vine St., Philad'a, Pa.

## PLUMBERS' TOOLS.

### No. 1. STEEL BENDING PINS.



No. 1.—Bent both ends,..... $\frac{1}{2}$  inch Steel.....per dozen \$2 70

### No. 2.



No. 2.—Bent one end, .....  $\frac{1}{2}$  inch Steel.....per dozen, \$2 50

No. 2a.—Bent on one end and straight taper on other end,..... “ “ 2 50

No. 2b.—Perfectly straight; one end tapered,,..... “ “ 2 50

### No. 3. PLUMBERS' CAULKING IRONS.



No. 3.— $\frac{5}{8}$  in. Octagon Steel, assorted thickness of face,.....per dozen, \$3 00

### No. 4.



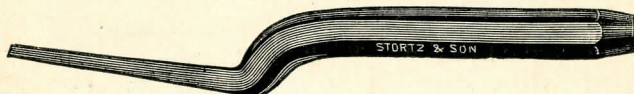
No. a.— $\frac{1}{2}$  in. Octagon Steel,  $\frac{3}{4}$  in. face, assorted thickness,.....per dozen, \$3 00

No. b.— $\frac{5}{8}$  in. Octagon Steel, 1 in. face, “ “ ..... “ “ 3 00

No. c.— $\frac{3}{4}$  in. Octagon Steel, 1  $\frac{1}{2}$  in. face, “ “ ..... “ “ 3 00

No. d.—Checkered Edge or Face,  $\frac{5}{8}$  steel,..... “ “ 5 00

### No. 5.



No. 5.—Flat end,..... $\frac{5}{8}$  in. Octagon Steel,..... per dozen, \$3 00

### No. 6.



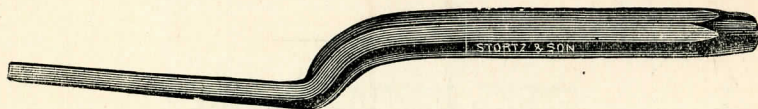
No. 6.—Assorted thickness and widths on end,  $\frac{5}{8}$  in. Oct. Steel,....per doz., \$3 00

### No. 7.



No. 7.—Gasket Iron,..... $\frac{5}{8}$  in. Octagon Steel, .....per dozen, \$3 00

## No. 8. PLUMBERS' YARNING TOOLS.



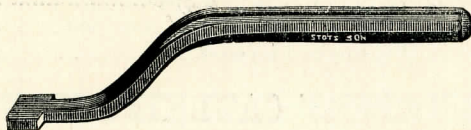
No. 8a.—Long Caulking Iron, or Yarning Chisel, $\frac{1}{2}$ in. Steel,.....per dozen,	\$3 00
No. 8b.— “ “ “ “ $\frac{5}{8}$ “ “ ..... “ “	3 60
No. 8c.— “ “ “ “ $\frac{3}{4}$ “ “ ..... “ “	4 00

## No. 9.



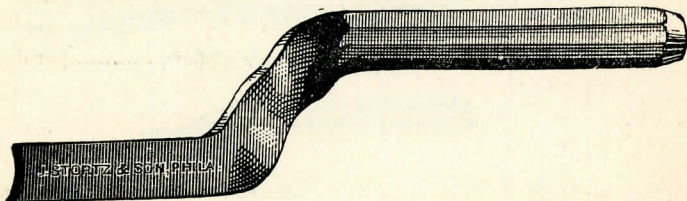
No. 9.—Octagon Spring Steel Packing Chisel, 18 in. long,.....per dozen, \$7 00

## No. 10.



No. 10.—Corner Irons,.....per dozen, \$8 00

## No. 11.



No. 11a.—Corner Iron, right hand bend, $\frac{5}{8}$ in. Steel.....per dozen,	\$4 00
No. 11b.— “ “ left “ “ ..... “ “	4 00
No. 11c.— “ “ right “ “ $\frac{3}{4}$ in. Steel, toothed edges, “ “	8 00
No. 11d.— “ “ left “ “ “ “ “ “ “ “	8 00
No. 11e.—Gasket Irons, right “ “ $\frac{3}{4}$ in. Steel,..... “ “	8 00
No. 11f.— “ “ left “ “ “ “ “ “	8 00

## No. 12.

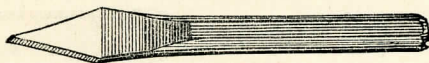
## COLD CHISELS.



Size of Steel,..... $\frac{3}{8}$ x4, $\frac{1}{4}$ x4, $\frac{5}{16}$ x4 $\frac{1}{2}$ , $\frac{3}{8}$ x5, $\frac{1}{2}$ x5 $\frac{1}{2}$ , $\frac{5}{8}$ x6, $\frac{3}{4}$ x7, $\frac{7}{8}$ x8, 1x9	
Approximate weight	
per dozen,.....14oz., 11lb., 1 $\frac{1}{4}$ lb., 11b.9oz., 3 $\frac{7}{8}$ lb., 6 $\frac{1}{2}$ lb., 10 $\frac{5}{8}$ lb., 16lb., 25lb.	
Price per dozen,.....\$1.20 1.40 1.50 1.80 2.50 3.00 4.00 6.00 8.00	

Special sizes to order as follows:

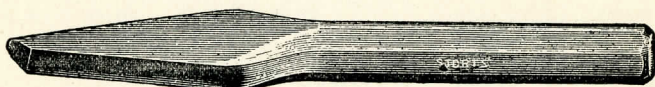
Size of Steel,..... $\frac{1}{2}$ x8	$\frac{1}{2}$ x10	$\frac{5}{8}$ x10	$\frac{5}{8}$ x12	$\frac{5}{8}$ x14	$\frac{5}{8}$ x16	$\frac{5}{8}$ x18
Price per dozen,.....\$3.00	4.00	4.50	5.00	5.50	6.00	7.00
Size of Steel,..... $\frac{5}{8}$ x24	$\frac{3}{4}$ x16	$\frac{3}{4}$ x18	$\frac{3}{4}$ x24			
Price per dozen,.....\$8.00	7.00	8.00	10.00			

**No. 14. CAPE CHISELS.**

Size of Steel,.....	$\frac{1}{4} \times 4$	$\frac{5}{16} \times 4\frac{1}{2}$	$\frac{3}{8} \times 5$	$\frac{1}{2} \times 5\frac{1}{2}$	$\frac{5}{8} \times 6$	$\frac{3}{4} \times 7$	$\frac{7}{8} \times 8$	$1 \times 9$
Price per dozen,.....	\$1.50	1.80	2.00	3.00	4.00	5.00	6.00	8.00

**No. 15. DIAMOND NOSE CHISELS.**

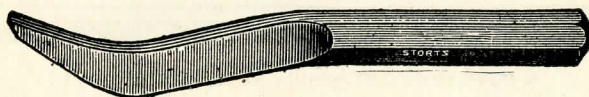
Size of Steel,.....	$\frac{1}{4} \times 4$	$\frac{5}{16} \times 4\frac{1}{2}$	$\frac{3}{8} \times 5$	$\frac{1}{2} \times 5\frac{1}{2}$	$\frac{5}{8} \times 6$	$\frac{3}{4} \times 7$	$\frac{7}{8} \times 8$	$1 \times 9$
Price per dozen,.....	\$1.50	1.80	2.00	3.00	4.00	5.00	6.00	8.00

**No. 16. HALF ROUND NOSE CHISELS.**

Size of Steel,.....	$\frac{1}{4} \times 4$	$\frac{5}{16} \times 4\frac{1}{2}$	$\frac{3}{8} \times 5$	$\frac{1}{2} \times 5\frac{1}{2}$	$\frac{5}{8} \times 6$	$\frac{3}{4} \times 7$	$\frac{7}{8} \times 8$	$1 \times 9$
Price per dozen,.....	\$1.50	1.80	2.00	3.00	4.00	5.00	6.00	8.00

**No. 17. ROUND NOSE CHISELS.**

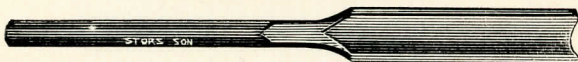
Size of Steel,.....	$\frac{1}{4} \times 4$	$\frac{5}{16} \times 4\frac{1}{2}$	$\frac{3}{8} \times 5$	$\frac{1}{2} \times 5\frac{1}{2}$	$\frac{5}{8} \times 6$	$\frac{3}{4} \times 7$	$\frac{7}{8} \times 8$	$1 \times 9$
Price per dozen,.....	\$1.50	1.80	2.00	3.00	4.00	5.00	6.00	8.00

**No. 18. PICKING CHISELS.**

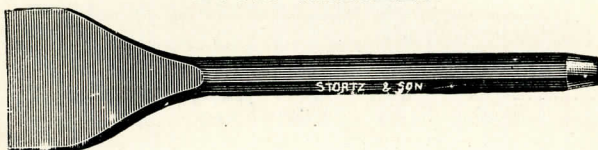
$\frac{5}{8}$  Octagon Steel,.....per dozen, \$4 00

**No. 19. ALL STEEL WOOD CHISELS.**

Size of Face,.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Size of Steel,.....	$\frac{3}{8} \times 9$	$\frac{1}{2} \times 10$	$\frac{5}{8} \times 11$	$\frac{5}{8} \times 12$	$\frac{3}{4} \times 14$
Price per dozen,.....	\$4.00	5.00	6.00	7.00	8.00

**No. 20. ALL STEEL GOUGES.**

Size of Face,.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Size of Steel,.....	$\frac{3}{8} \times 9$	$\frac{1}{2} \times 10$	$\frac{5}{8} \times 11$	$\frac{5}{8} \times 12$	$\frac{3}{4} \times 14$
Price per dozen,.....	\$4.50	6.00	7.50	8.00	9.60

**No. 21. FLOOR CHISELS.**

Size of Face,.....	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Size of Steel,.....	$\frac{5}{8} \times 8$	$\frac{3}{4} \times 10$	$\frac{3}{4} \times 12$	$\frac{3}{4} \times 14$	$\frac{7}{8} \times 16$
Price per dozen,.....	\$7.00	8.00	10.00	13.50	15.00

**No. 22. STAR STONE DRILLS.**

Forged from best Octagon Steel.

Size of Steel,.....	$\frac{3}{16} \times 6$	$\frac{1}{4} \times 6$	$\frac{5}{16} \times 7$	$\frac{3}{8} \times 8$	$\frac{1}{2} \times 10$	$\frac{5}{8} \times 12$	$\frac{3}{4} \times 14$	$\frac{7}{8} \times 16$	$\frac{1}{2} \times 18$
Size of Hole,.....	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Price per dozen,.....	\$3.00	3.50	4.00	5.00	6.00	9.00	12.00	16.00	21.00

*Special Sizes made to Order.*

**No. 23. DIAMOND POINT DRILLS.**

Forged from best quality Octagon Tool Steel.

Size of Steel, .....	$\frac{3}{16} \times 6$	$\frac{1}{4} \times 6$	$\frac{5}{16} \times 7$	$\frac{3}{8} \times 8$	$\frac{1}{2} \times 10$	$\frac{5}{8} \times 12$	$\frac{3}{4} \times 14$	$\frac{7}{8} \times 16$	$1 \times 18$
Size of Hole,.....	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Price per dozen,....	\$24.00	3.00	3.60	4.00	5.00	6.00	8.00	12.00	15.00

**No. 023. NAIL CHISELS.**

$\frac{3}{4} \times 18$  in. Octagon Steel,  $1\frac{1}{2}$  in. cut,.....per dozen, \$15 00

## No. 24.

## BRICK CHISELS.



## Regular Size.

Falt Steel, size $\frac{3}{8} \times \frac{7}{8} \times 12$ ,.....	per dozen,	\$4 00
Round Steel, size $\frac{5}{8} \times 12$ ,.....	“ “	4 50
Octagon Steel, size $\frac{5}{8} \times 12$ ,.....	“ “	5 00

## Special Sizes. -

Flat Steel,.....	$\frac{3}{8} \times \frac{7}{8} \times 14$	$\frac{3}{8} \times 1 \times 16$	$\frac{1}{2} \times 1 \times 18$	$\frac{1}{2} \times 1 \times 24$			
Per dozen,.....	\$4.50	5.50	7.00	8.00			
Round Steel,.....	$\frac{5}{8} \times 14$	$\frac{5}{8} \times 16$	$\frac{3}{4} \times 18$	$\frac{3}{4} \times 24$			
Per dozen, .....	\$5.00	6.00	7.00	8.00			
Octagon Steel,.....	$\frac{1}{2} \times 11$	$\frac{5}{8} \times 14$	$\frac{5}{8} \times 16$	$\frac{3}{4} \times 16$	$\frac{3}{4} \times 18$	$\frac{3}{4} \times 24$	
Per dozen,.....	\$4.00	5.50	6.00	7.00	7.00	8.00	10.00

## No. 25.

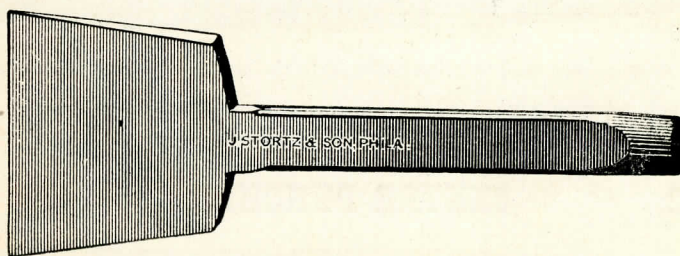
## JOINTER CHISELS.



Flat Steel, size $\frac{3}{8} \times \frac{7}{8} \times 12$ ,.....	per dozen,	\$4 00
Round Steel, size $\frac{5}{8} \times 12$ ,.....	“ “	4 50
Octagon Steel, size $\frac{5}{8} \times 12$ ,.....	“ “	5 00

## No. 26.

## FRONT CHISELS.



## Oil Finish.

No. a.—2½ to 3 inch face,.....	per dozen,	\$ 8 00
No. b.—3 to 3½ inch face,.....	“ “	12 50
No. c.—3½ to 4½ inch face,.....	“ “	15 00

**No. 27. BRICKLAYERS' LINE PINS.**

Heavy, .....per dozen, \$1 30

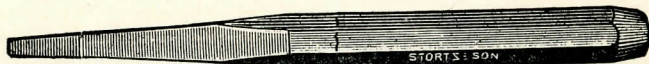
**NAIL SETTS.****No. 28.**

Hand Forged, Superior Steel, Tempered Points.

No. 28 —Round Steel, square and round points, assorted sizes,....per dozen, \$0 60

**No. 29.**

No. 29.—Square Steel, square and round points, assorted sizes,....per dozen, \$0 90

**No. 30.**

No. 30.—Octagon Steel, square and round points, assorted sizes,....per dozen, \$1 15

Polished Nail Setts, extra per dozen, net, 25 cents.

**No. 31. CUP POINTED KNURLED NAIL SETTS.**

The most perfect Nail Sett ever offered to the trade, tempered both ends.

Blued Steel, assorted point, .....per dozen, \$1 15  
 Nickel Plated, " " ..... " " 1 30

**No. 32.****CENTRE PUNCHES.**

Blued Steel,  $\frac{3}{8}$  inch diameter, .....per dozen, \$1 50  
 Nickel Plated, " " " ..... " " 1 80

## No. 33. CENTRE PUNCHES.



Octagon Steel, $\frac{5}{8}$ x 4 inches,.....	per dozen,	\$1 15
" " $\frac{3}{8}$ x 4 $\frac{1}{2}$ " .....	" "	1 50
" " $\frac{1}{2}$ x 5 " .....	" "	1 80

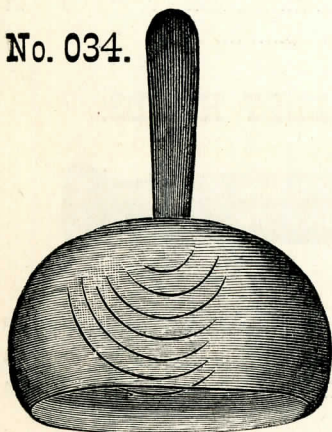
## No. 033. COOPERS' PUNCHES.



For Punching Holes in Hoop Iron, Sheet Iron, etc.

Size of Hole,.....	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$
Size of Steel,.....	$\frac{3}{8}$ x 4 $\frac{1}{2}$	$\frac{3}{8}$ x 4 $\frac{1}{2}$	$\frac{3}{8}$ x 5	$\frac{1}{2}$ x 6	$\frac{1}{2}$ x 6	$\frac{5}{8}$ x 7	$\frac{3}{8}$ x 7	$\frac{5}{8}$ x 7
Price per dozen,...	\$1.50	1.65	1.85	2.15	2.15	2.25	2.25	2.25
	1	2	2	2	1	1	1	
Assorted,.....	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$
	per dozen,							\$2 25

## No. 034.

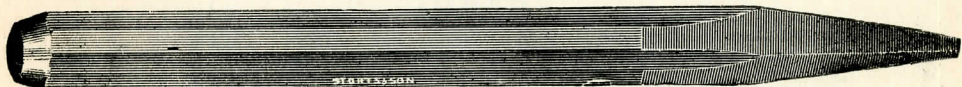


## HICKORY MALLETS.

For Stone Cutters.

No. 5.—6 in. diameter,.....	per doz.,	\$12 00
No. 6.—7 in. " .....	"	15 00
No. 7.—8 in. " .....	"	18 00
No. 7.—8 (XX) in. diameter,...	"	24 90

## No. 34. STONE POINTS.



Plain Heads. Forged from best English Steel. Oil Finish.

$\frac{5}{8}$ x 9,.....	per lb.,	\$0 24
a.— $\frac{3}{4}$ x 9,.....	"	24
b.— $\frac{7}{8}$ x 9,.....	"	21
c.—1 x 10,.....	"	21

**No. 35. MALLET HEAD STONE POINTS.**

Oil Finish.

a.— $\frac{5}{8}$ x9,.....	per lb.,	\$0 38
b.— $\frac{3}{4}$ x9,.....	"	36
c.— $\frac{7}{8}$ x9,.....	"	36

**No. 36. STONE CHISELS.**

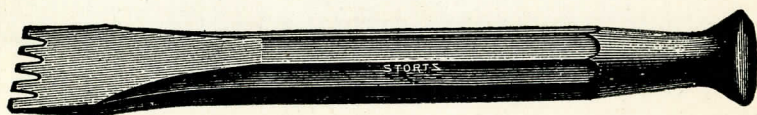
Plain Heads.

a.— $\frac{3}{4}$ x9,.....	per lb.,	\$0 28
b.— $\frac{7}{8}$ x9,.....	"	21
c.—1x10,.....	"	21

**No. 37. STONE CHISELS, MALLET HEADS.**

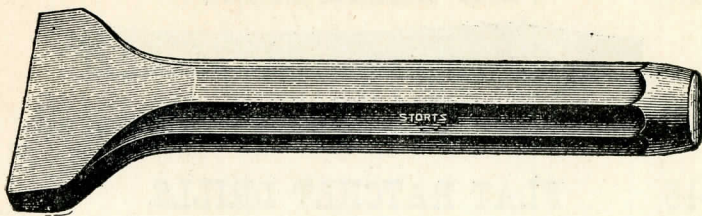
Oil Finish.

a.— $\frac{5}{8}$ x9,.....	per lb.,	\$0 38
b.— $\frac{3}{4}$ x9,.....	"	36
c.— $\frac{7}{8}$ x9,.....	"	36

**No. 38. TOOTHED EDGE STONE CHISELS, MALLET HEAD.**

Oil Finish.

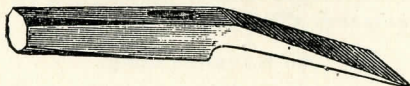
Give width of face or edge, and size of steel,.....per lb., \$0 45

**No. 39. PITCHING TOOLS.**

Oil Finish.

Give width of Cut and size of Steel.

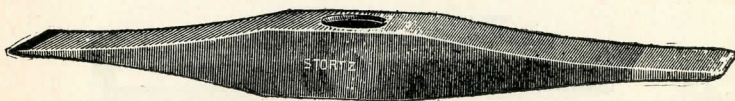
Plain Head.....per lb., \$0.38  
 Mallet Head....." .45

**BRICK HAMMERS.****No. 40.**

Square Face, .....per dozen, \$12.00

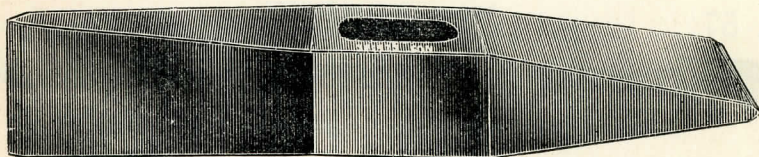
**DOUBLE EDGE OR SCUTCH.****No. 41.**

No. 1.—Scutch or Double Edge,.....per dozen, \$12.00

**No. 42.****MILL PICKS.**

Forged from best quality English Steel.

Oil Finish,.....per lb., \$0.45

**No. 43.****BOILER PICKS.**

Forged from best quality Steel.

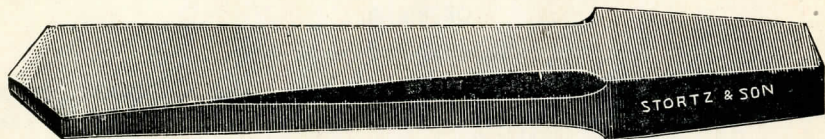
Price, Oil Finish,.....per dozen, \$9.00

## No. 44. FLAT BRACE DRILLS.



	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$ in.
No. 10.—Straw color, per doz.,	\$2.00	2.00	2.00	2.50	2.50	3.00	3.00	3.50

## No. 45. FLAT RATCHET DRILLS.



With Tapered Square Shank, fitting all Ratchets with Square Sockets, as in Packer Ratchets. These Drills are made of the best English Steel. We offer them with confidence, knowing they will give entire satisfaction.

All 6 Inches Long.

Size,	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Price each,	\$0.50	.50	.50	.60	.60	.60	.70	.80	.90	.90	.90	1.20

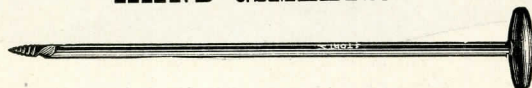
## No. 45 a. PIPE DRILLS.

Same style as No. 45.

For Pipe Size,	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$ in.
Price, each,	\$0.50	.50	.50	.60	.70	.80	.90	1.00	1.20	1.50

## BELL HANGERS', PLUMBERS' and ELECTRICIANS' HAND GIMLETS.

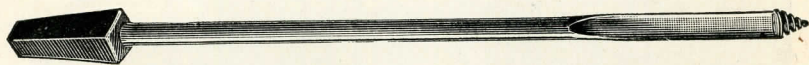
### No. 46.



Made in all sizes to order; regular, from  $\frac{3}{16}$  to  $\frac{5}{16}$ , and  $\frac{3}{8}$ , same price.

Length,	12 in.	15 in.	18 in.	24 in.	30 in.	36 in.
Per dozen,	\$4.00	5.00	6.00	8.00	10.00	12.00

## No. 57. BRACE BITS.



Made same as Hand Gimlets. State Size of Bore wanted.

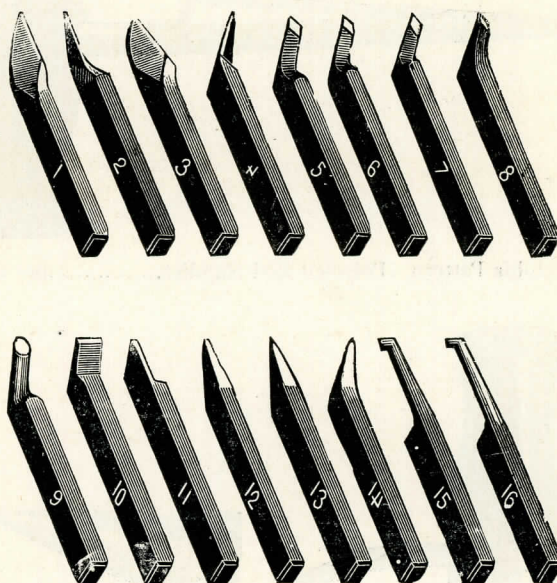
Length,	12 in.	15 in.	18 in.	24 in.	30 in.	36 in.
Per dozen,	\$4.00	5.00	6.00	8.00	10.00	12.00

Made any gauge to order; sent assorted  $\frac{3}{16}$  to  $\frac{5}{16}$ , unless otherwise ordered.

No. 50.

## LATHE TOOLS.

Forged from Best Tool Steel.



1.—Left Side Tool.

2.—Right Side Tool.

3.—Left Side Tool, bent.

4.—Right Side Tool, bent.

5.—Heavy Diamond Point for Cast Iron.

6.—Diamond Point for Steel and  
Wrought Iron, right hand.7.—Diamond Point for Steel and  
Wrought Iron, left hand.

8.—Half Diamond Point.

9.—Round Nose.

10.—Water Finishing Tool.

11.—Cutting-off Tool.

12.—Roughing Tool.

13.—Thread Tool.

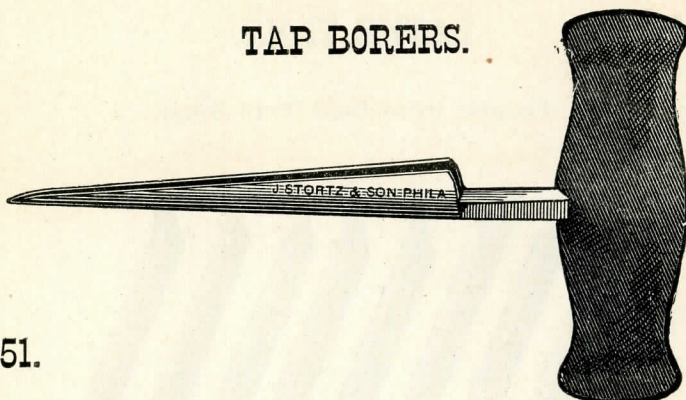
14.—Bent Thread Tool.

15.—Inside Turning Tool.

16.—Inside Thread Tool.

$\frac{1}{4} \times \frac{1}{2}$ inch Steel,	.....each,	\$0.30
$\frac{3}{8} \times \frac{3}{4}$ “ “	..... “	.50
$\frac{1}{2} \times 1$ “ “	..... “	.70
$\frac{5}{8} \times 1\frac{1}{4}$ “ “	..... “	1.00

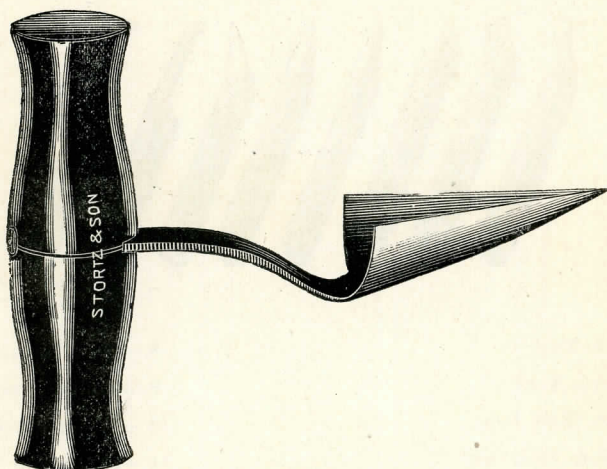
## TAP BORERS.



No. 51.

No. 51.—Philadelphia Pattern Polished Red Handles,.....per dozen, \$3.50

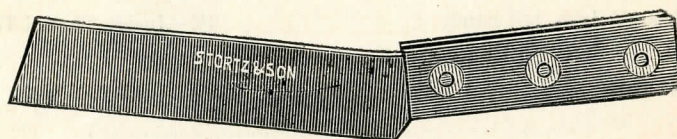
No. 52.



No. 52.—New York Pattern; Polished Red Handles,.....per dozen, \$3.50

No. 53.

## CHIPPING KNIVES.

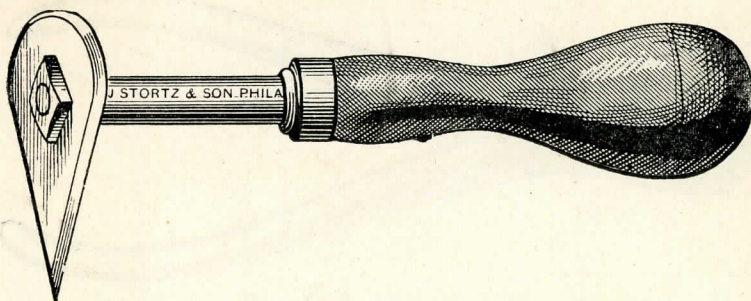


Forged from Extra Quality Steel.

No. 53.—Blades  $4\frac{1}{2}$  inches to  $5\frac{1}{2}$  inches long, .....per dozen, \$6.00

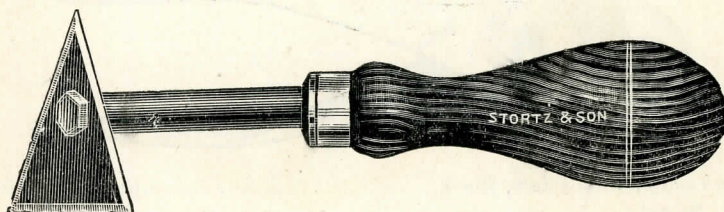
## No. 54.

## SHAVE HOOKS.



No. a.—Oval Blades,.....	per dozen,	\$3.00
No. b.—Half Oval Blades,.....	“ “	3.00
No. c.—Straight Edges, Round Back,.....	“ “	3.00

## No. 55.



No. a.—Triangle Blades,.....	per dozen,	\$3.00
No. b.—Square “ .....	“ “	3.00
Extra Blades, any style,.....	“ “	2.00

## No. 56.

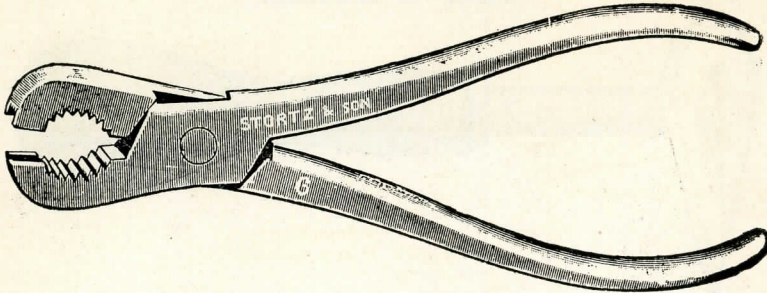
## GAS PLIERS.



Solid Forged Steel, either full Polished or Black, warranted.

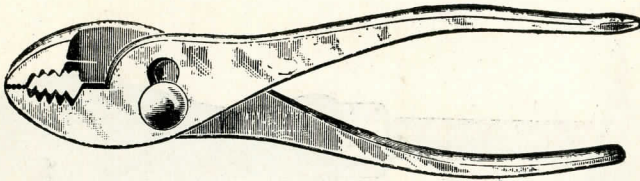
Inches,.....	7	8	9	10	11	12	14
Per dozen,.....	\$7.40	8.25	9.25	10.70	12.00	13.00	17.00

Packed one-half dozen in a box.

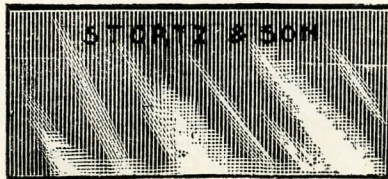
**No. 57. BURNER PLIERS.**

Tempered Jaws. Full Polish.

4 inch.—Per dozen,	.....	\$4.80
5 inch.— “ “	.....	5.50
6 inch.— “ “	.....	6.50

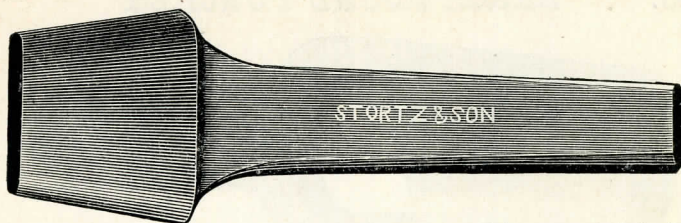
**No. 60. COMBINATION PLIERS.**

6 inch Combination Pliers, Black,	.....per dozen,	\$13.50
6 “ Nickel,	..... “ “	15.00
10 “ Black,	..... “ “	18.00
10 “ Nickel,	..... “ “	21.00

**No. 61. CABINET SCRAPERS.**

No. a.—2 inches x 4-5-6 inches,	.....per dozen,	\$0.75
“ b.—2½ “ x 4-5-6 “	..... “ “	0.90
“ c.—3½ “ x 4-5-6 “	..... “ “	1.15
“ d.—4 “ x 4-5-6 “	..... “ “	1.50
“ e.—5 x 6 inches,	..... “ “	1.50
Assorted,	..... “ “	1.15

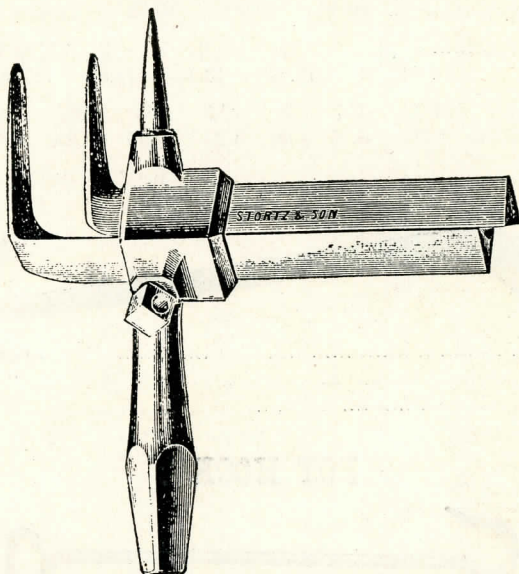
No. 63. BAG TRACE AND BUTTON PUNCH.



Special Sizes to Order.

Prices on receipt of Pattern.

## No. 64. WASHER CUTTERS.



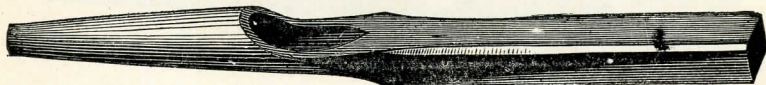
Strong and Well Made. Best Quality of Forged Steel Cutters.

Price per dozen.....	\$8.00
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One-half dozen in box.

## No. 65. SADDLERS' PUNCHES.

Best Quality.

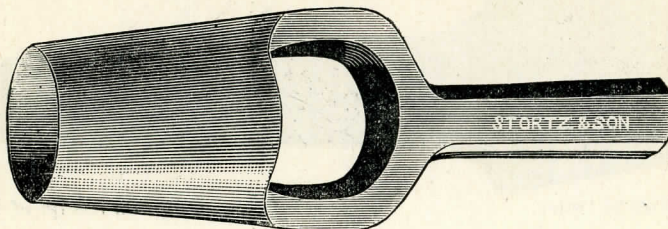


Full Size Cut of No. 6.

Size,.....	1	2	3	4	5	6	7	8	9	10	12	14	15	16
Per dozen,....	\$2.00	2.00	2.00	2.00	2.00	2.25	2.50	2.50	2.50	3.00	3.75	4.50	5.00	6.00
Assorted, from No. 1 to 6, .....											per dozen,	\$2.10		
“ “ No. 7 to 10, .....											“	“	2.75	

One dozen in a box.

## No. 66. LARGE ROUND PUNCHES.



Inch,.....	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$				
Per dozen,.....	\$9.50	10.00	10.50	11.00	11 50	12.00				
Inch,.....	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$1\frac{1}{8}$ to $1\frac{1}{4}$	$1\frac{3}{8}$ to $1\frac{1}{2}$				
Per dozen, .....	\$12.50	13.00	13.50	14.00	25.00	32 00				
Inch,.....	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
Each,.....	\$2.75	3.50	3.75	4.00	4.25	4.75	5.25	6.00	7.50	9.00

## No. 67. ROUND IRONS.



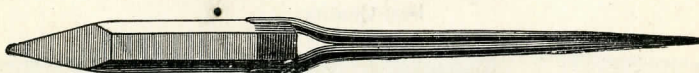
No. 1,.....	per dozen, \$ 8.00
No. 2,.....	“ “ 10.00
No. 3,.....	“ “ 12.00

## No. 68. POT HOOKS.



Pot Hooks,.....	\$2.50
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## No. 69. SOLDERING COPPERS.



Extra Finish.

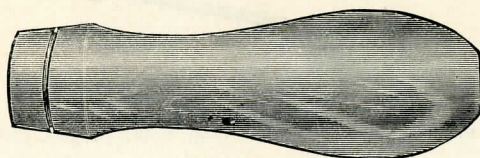
With Square Points, for common use. With Flat Points for Bottoms. Hatchet  
Coppers, for Plumbers' use.

Weight,.....	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4	5	6	7	8	9	10	12 lbs. per pair.
Soldering Coppers, .....	per pound, .....												

We supply an extra quality and finish in Coppers.

## No. 70.

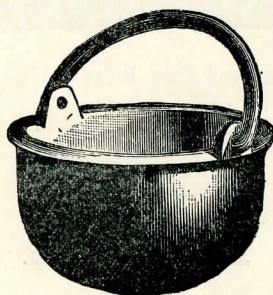
## COPPER HANDLES.



Poplar Copper Solder Handles, without Wire Ferrules, .....per gross,							\$2.50
Poplar	"	"	with	"	"	.....	" 3.50
Cherry	"	"	without	"	"	.....	" 3.00
Cherry	"	"	with	"	"	.....	" 4.00

## No. 71.

## SOLDER POTS.



Diameter on Top,.....	5 in.	6 in.	6½ in.	8 in.	9 in.	10½ in.	12 in.	13½ in.
Price,.....	\$0.50	.65	.70	1.10	1.30	1.75	3.00	3.50

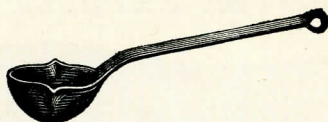
## No. 72.

## PLUMBERS' LADLES.



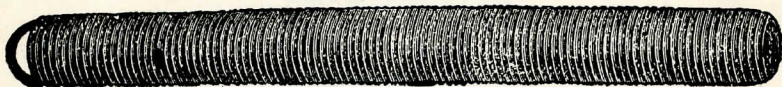
No. 72.—Single Lip of Wrought Iron, with Riveted Handle.

Size, inches,.....	2½	3	3½	4	4½	5	5½	6
Per dozen,.....	\$2.75	3.25	3.50	4.00	4.50	5.00	5.50	6.00

**No. 73.**

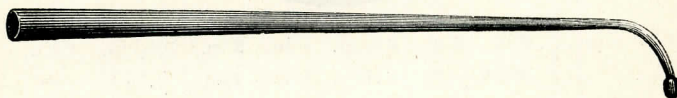
No. 73.—Double Lip, of Wrought Iron, Solid Forged, Extra Deep.

Size, inches,.....	2½	3	3½	4	5	6	7	8	9	10
Per dozen,.....	\$4.25	4.75	5.75	7.25	11.00	13.00	22.00	28.00	45.00	54.00

**No. 74.****PIPE BENDERS.**

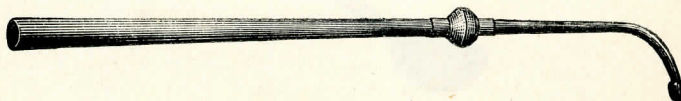
For Bending Lead Pipe, Brass or Copper Tubing.

Size, inch,.....	1	1¼	1½	2
Per dozen,.....	\$7.00	8.00	10.00	12.00

**No. 75.****BLOW PIPES.**

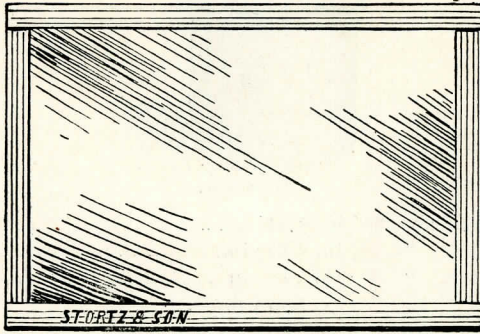
Light.

Size, inches,.....	8	9	10	11	12	13
Price per dozen,.....	\$2.40	2.75	3.00	3.40	3.75	4.50

**No. 76.**

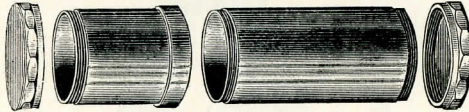
With Bulb.

Size, inches, .....	8	9	10	12
Per dozen,.....	\$4.00	4.50	5.00	6.00

**No. 77. PLUMBERS' LOOKING GLASS.**

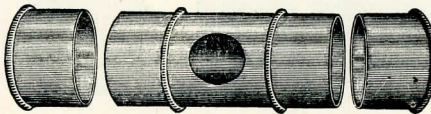
Brass Frames, Double Thick Plate Glass,

Per dozen,.....\$4.00

**No. 78. EXTRA HEAVY GREASE BOXES.**

Price per dozen, 2 Parts,..... \$18.00

" " " 3 " ..... 24.00

**No. 79. GREASE, ROSIN AND FLOUR BOXES.**

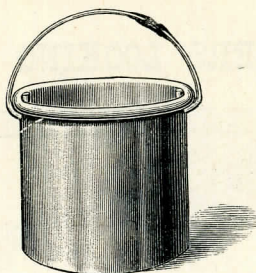
Price per dozen, small,.....\$15.00

" " " medium, ..... 18.00

" " " large, ..... 21.00

## No. 80.

## SOIL CUPS.



Seamless.

Price per dozen, small size, $2\frac{1}{2}$ in. x $2\frac{1}{2}$ in.,.....	\$3.75
“ “ “ med. “ $2\frac{3}{4}$ in. x $2\frac{3}{4}$ in.,.....	4.50
“ “ “ large, “ 3 in. x 3 in.,.....	5.00

Spun Brass.

## No. 81.

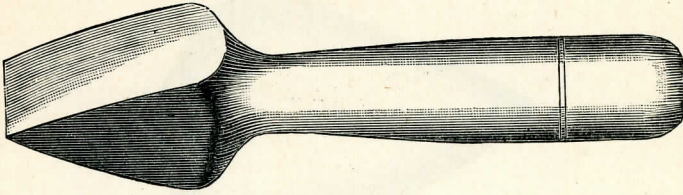
## TORCHES.



No. a.—Torches, Tin,.....	per dozen,	\$10.00
No. b.—Torches, Tin, with side filler,.....	“ “	12.00
No. c.—Torches, Brass,.....	“ “	16.00
No. d.—Torches, Brass, with side filler,.....	“ “	18.00
No. e.—Torches, Tin, with Blow Pipe,.....	“ “	24.00

No. 83.

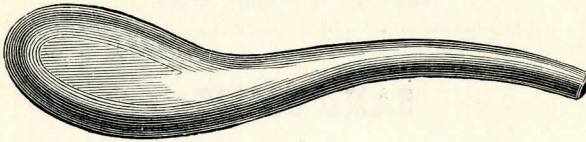
## SIDE EDGERS.



No. a.—Hickory,.....	per dozen,	\$4.50
No. b.—Dogwood,.....	“ “	6.00
No. c.—Boxwood or Lignum Vitæ,.....	“ “	9 00

No. 84.

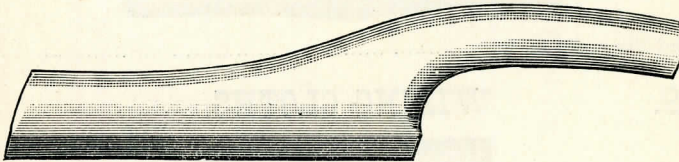
## BOSSING STICKS.



No. a.—Hickory,.....	per dozen,	\$6.00
No. b.—Dogwood,.....	“ “	7.00
No. c.—Boxwood or Lignum Vitæ,.....	“ “	9.00

No. 85.

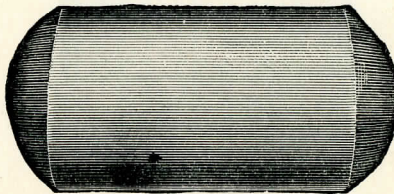
## PLUMBERS' DRESSER.



No. a.—Hickory,.....	per dozen,	\$6.00
No. b.—Dogwood,.....	“ “	7.50
No. c.—Boxwood or Lignum Vitæ,.....	“ “	9.60

No. 86.

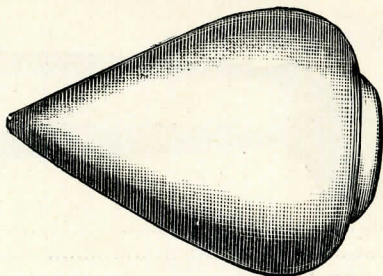
## DRIFTING PLUGS.



Lignum Vitæ,.....	1 in.	1¼ in.	1½ in.	2 in.
Price, per dozen,.....	\$0.80	1.20	1.50	1.70

## No. 87.

## TURN PINS.



Dogwood.

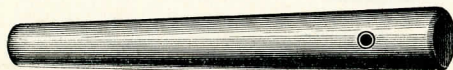
No.....	1	2	3	4
Price per dozen,.....	\$0.80	1.50	1.80	2.50

Boxwood or Lignum Vitæ.

No.....	1	2	3	4
Price per dozen,.....	\$1.80	3.00	3.60	4.50

## No. 88.

## SAND PLUGS.



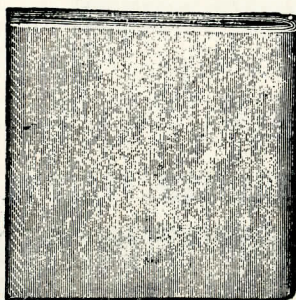
No. 1 Sand Plugs, set of 8, ..... \$2.50



No. 2 Sand Plugs, set of 4, ..... \$1.30

## No. 89.

## WIPING CLOTHS.

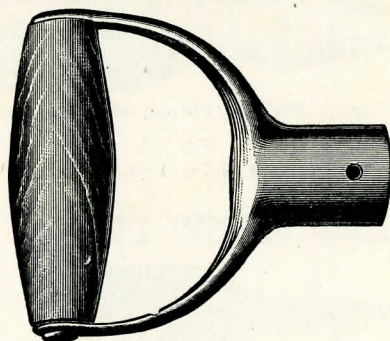


Mole Skin.

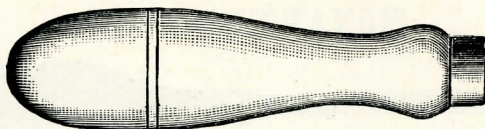
Sizes,.....	2x2	2½x2½	3x3	3½x3½	4x4
Price,.....	\$2.00	2.40	2.70	3.00	3.50

Ticking.

Sizes,.....	2x2	2½x2½	3x3	3½x3½	4x4
Price,.....	\$0.80	1.00	1.20	1.50	1.80

**No. 91. MALLEABLE IRON D HANDLES.**

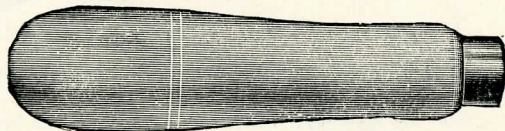
Per dozen,..... \$1.50

**No. 92. HARD WOOD FILE HANDLES.**

In Ash, Maple and Hickory, with Patent Malleable Iron Ferrules.

	Dia. of Ferrule.	Length.	Per Gross.
No. a, .....	$\frac{5}{8}$ in.	4½ in.	\$3.20
No. b, .....	$\frac{3}{4}$ in.	4¾ in.	3.40
No. c, .....	$\frac{7}{8}$ in.	5 in.	3.60
No. d, .....	1 in.	5¼ in.	3.80
No. e, .....	1½ in.	5½ in.	4.00

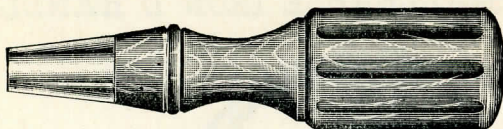
Assorted, \$3.60 per Gross.

**No. 93. SOFT POPLAR WOOD FILE HANDLES.**

With Brass Ferrules.

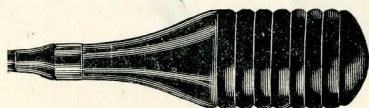
No. a.—Soft Woods, assorted, six sizes, .....	per gross,	\$2.50
No. b.— “ “ “ three large sizes, .....	“	3.00

All above packed in one-fourth gross boxes.

**No. 96. VICTOR SCREW DRIVER HANDLES.**

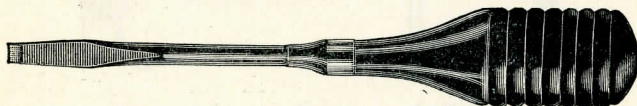
Mahogany Stained, Fluted, Steel Ferrules.

Size, inches,.....	2	3	4	5	6	8	10	12
Per dozen,.....	\$1.50	1.70	1.80	2.00	2.50	3.00	3.50	4.00

**No. 97. MONARCH SCREW DRIVER HANDLES.**

Cherry Stained, Ribbed, Steel Ferrules.

Size, inches,.....	2	3	4	5	6	8	10	12
Per dozen,.....	\$0.80	.90	1.00	1.30	1.50	2.00	2.50	3.00

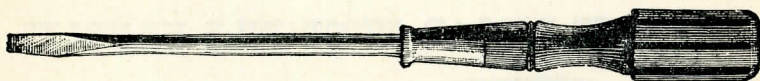
**No. 99. MONARCH DRIVER.**

Old No. 3.

This is unquestionably the cleanest, neatest and best Finished Driver in the market, *every blade tested* and fully guaranteed to hold fast in handle.

Rosewood Finished Handles, Long Drawn Steel Ferrules, Forged and Swedged Round Blades.

Size,.....	2	3	4	5	6	7	8	9	10	12
Per dozen,.....	\$2.00	2.50	3.00	3.50	4.00	5.00	5.50	7.50	8.50	9.50

**No. 100. VICTOR SCREW DRIVER.**

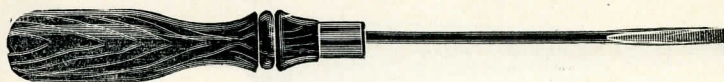
Old No. 4. Champion Pattern.

This is a very fine tool, and one of the most desirable and best selling patterns ever put on the market.

The Handles are of the favorite Fluted pattern, giving the best possible grip, and are finely finished in Mahogany Stain.

Every blade in these Screw Drivers is tempered with the greatest care, the *blade cannot turn* in the handle, and each Screw Driver is warranted strictly first-class.

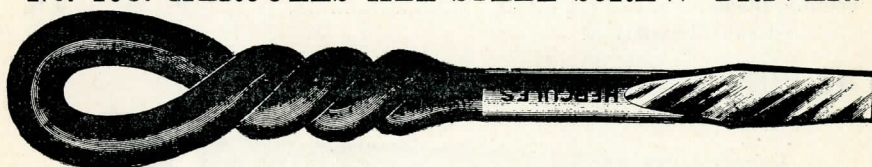
Size,.....	2	3	4	5	6	7	8	10	12
Per dozen,.....	\$3.00	3.50	4.00	5.00	6.00	7.00	8.00	10.00	12.00

**No. 102. ELECTRIC SCREW DRIVER.**

Old No. 6.

These are fine goods. Rosewood and Cocobola handles, *Stubs' Steel*, and the slim Blade makes a very desirable pattern for Jewelers, Electricians and general fine work.

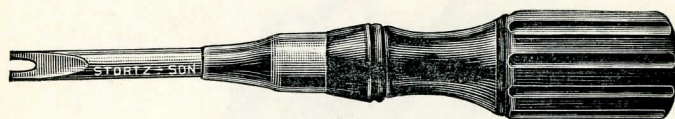
Size, .....	3	4	5	6	8
Per dozen, .....	\$3.00	4.00	5.00	6.00	8.00

**No. 103. HERCULES ALL-STEEL SCREW DRIVER.**

Old No. 7.

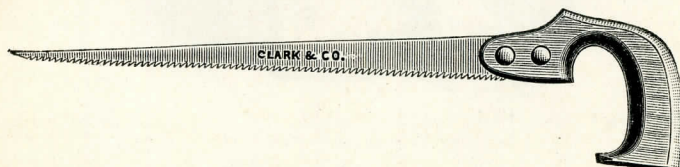
Made of one piece Steel. Handles are *welded* and twisted, and are practically indestructible; strongest Screw Driver ever made, particularly serviceable for rough and hard work.

Size, .....	2	3	4	5	6	7	8	10	12
Per dozen, .....	\$2.00	2.50	3.00	3.50	4.00	5.00	5.50	8.50	9.50
Bicycle or Sewing Machine Screw Drivers, 4½ in. over all, .....	per dozen,								\$3.00

**No. 104. NIPPLE SCREW DRIVERS.**

Convenient for Bicycle Repairer. Has a hole on end to allow the Spoke to draw up through the nipple.

Per Dozen, .....	\$3.00
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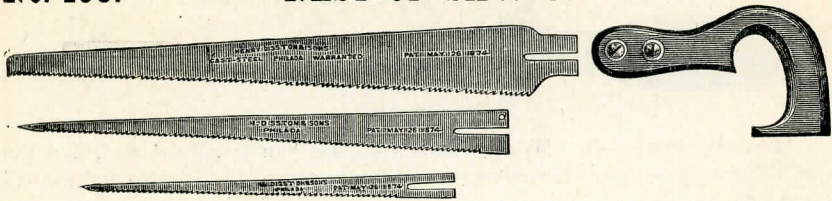
**No. 105. CAST STEEL COMPASS SAW.**

Size, inches, .....	10	12	14	16
Apple Handle, per dozen, .....	\$4.25	4.50	4.75	5.00

Half dozen in Box.

## No. 106.

## NEST OF SAWS.



Combining one each, keyhole, compass and table or pruning Saw.

Handle and Screws, .....	per dozen,	\$1.75
Keyhole Blades, .....	" "	1.75
Compass Blades, .....	" "	2.75
Pruning Blades, .....	" "	4.75
Three sets in a box, \$11.00.		

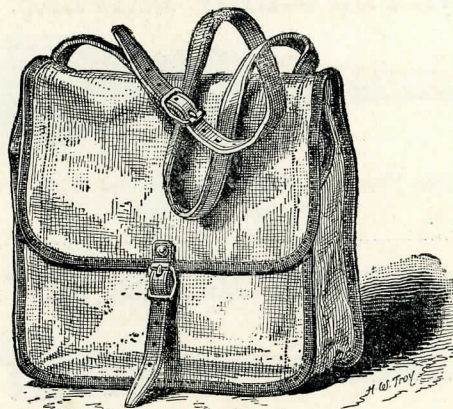
## No. 107.

## DOUBLE EDGE SAWS.



Size, inches, .....	12	14	16	18	20	22
Per dozen, .....	\$8.50	9.00	9.50	10.50	11.50	12.50

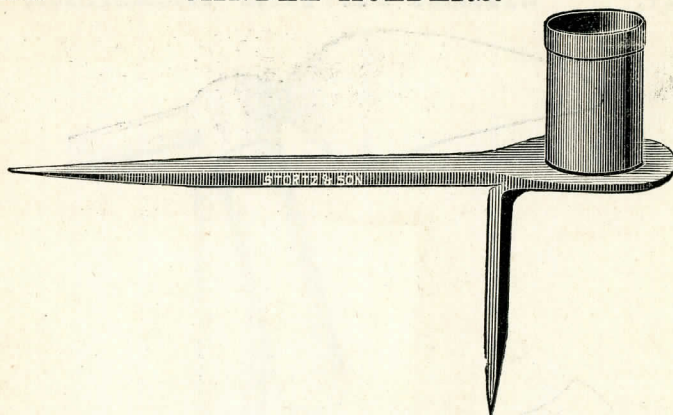
## No. 111.

PLUMBERS' AND BRICKLAYERS'  
TOOL BAGS.

No. a.—Brussels Carpet, Plain Leather Bottom, .....	price, each,	\$3.75
No. b.—" " " " Leather Bottom and Sides, .....	" "	4.50
No. c.—" " " " Extra Large, .....	" "	6.00
No. d.—Heavy White Duck, 16 inch, .....	" "	1.50
No. e.—" " " " Bound, 14 inch, .....	" "	2.75
No. f.—" " " " " 16 " .....	" "	3.00
No. g.—" " " " " 18 " .....	" "	3.75
No. h.—" " " " Leather Bottom and Bound, .....	" "	4.15

No. 112.

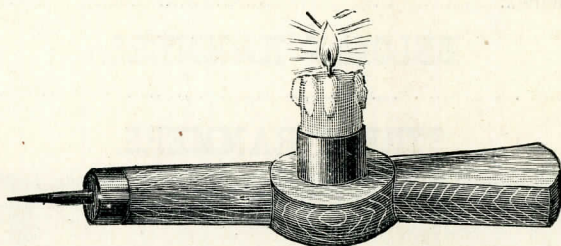
## CANDLE HOLDERS.



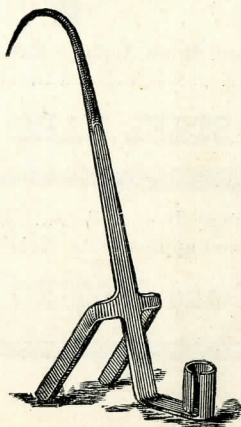
Same as Cut; Forged,.....per dozen, \$6.00

No. 113.

## CANDLE HOLDERS—Continued.

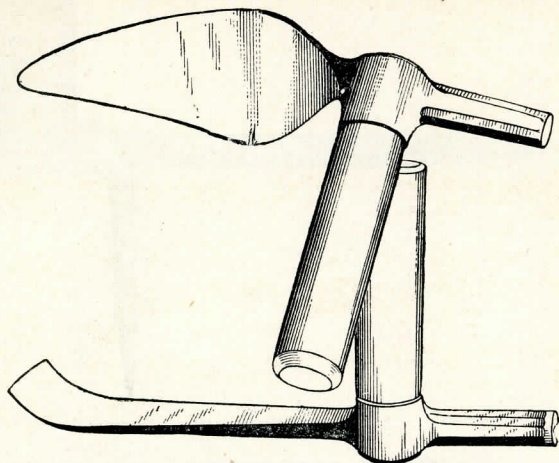
Made of Hard Maple, with Solid Brass Ferrules on end; Sharp Pointed Steel Pins,  
with Zinc Tube Candle Holder,.....per gross, \$20.00

No. 114.



Forged as per Cut,.....per dozen, \$12.00

## No. 117. STREET PAVIORS' HAMMERS.

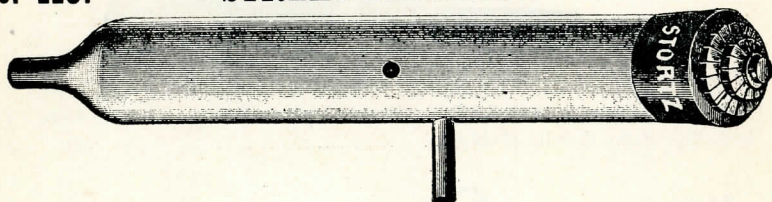


Cobble Hammers,.....each, \$3.00

## No. 118. BELGIAN HAMMERS.

Each,..... \$3.00

## No. 119. STREET RAMMERS.



Belgian Stone Asphalt Rammers.

Per dozen,..... \$100.00

## No. 120. STEEL BARS.



Wedge or Pinch Points, average about 16 lbs.,.....per lb., \$0 20  
State Size and approximate Weight in Order.

## No. 121. CROW and DIGGING BARS.



No. 121.—1 inch, 7 feet long, 17 lbs.,.....each, \$3.00  
No. 122.—1½ inch, 8 feet long, 28 lbs.,.....“ 4.25  
No. 123.—Hollow Handle, Steel Levels,.....“ 3.00

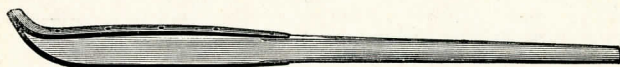
**No. 124. TAMPING and DIGGING BARS.**

No. 124.—1 in. (19 lbs.), 7 ft.,.....each, \$3.50

No. 125.—1½ in. (30 lbs.), 8 ft.,.....“ 4.50

**No. 126. WOOD HANDLE TAMPING BARS.**

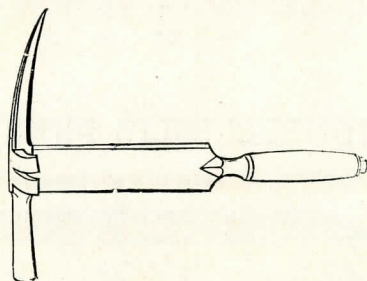
No. 126.—Hardwood Handle, iron shoe,.....each, \$2.00

**No. 127. CURB STONE LIFTS.**

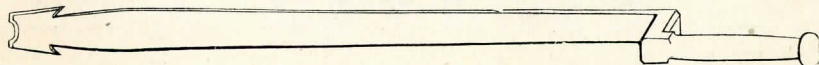
No. 127.—Curb Stone Lifts, 6 to 8 ft., heavy Hickory, bound with thick Steel,.....each, \$5.00

## TINNERS' SLATE ROOFERS' TOOLS.

We manufacture the finest Slaters' Tools in the country. The Hammers are forged from one solid piece of steel, finely polished and tempered. We have been for many years and are still the only firm that manufacture Slaters' Tools in large quantities. All others who make them are blacksmiths, who forge a few, no two alike in shape or quality, which are sometimes sold at a low price, but are dear at any price. We produce the only first-class tools in the market.

**No. 128. SLATERS' HAMMERS.**

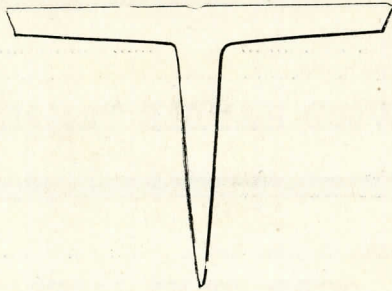
No. 128.—Hammers,.....each, \$3.00

**No. 129. SLATERS' RIPPERS.**

No. 129.—Rippers,.....each, \$2.00

No. 130.

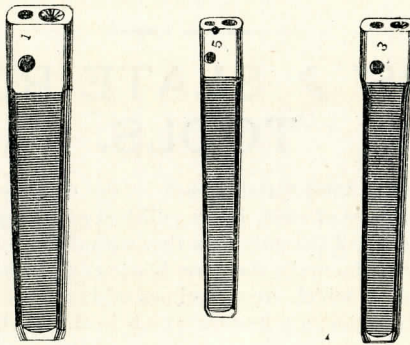
## SLATERS' STAKES.



No. 130.—Stakes, .....	each,	\$0 75
No. 131.—Punch, .....	“	.25
Price per set Slaters' Tools complete, .....		5.75

No. 133.

# RIVET SETTS.



No.....	00	0	1	2	3	4	5	6	7	8
For Iron Rivets,....	14 lb.	12 lb.	8 lb.	6 lb.	4 lb.	2½ lb.	2 lb.	1½ lb.	1 lb.	8 oz.
Price, each,.....	\$0.75	.75	.63	.63	.50	.50	.37	.37	.35	.35
For Copper Rivets,					7	8	10	12		

No. 134.

## TINNERS' SOLID PUNCHES.

[illegible]

**No. 135.      TINNERS' PRICK PUNCHES.**

Square Steel,  $\frac{3}{8}$  Square, Regular pattern,.....per dozen, \$1.44  
 Octagon Steel,....." " 1.44

**No. 136.      TINNERS' CIRCULAR CHISELS.**

Solid Cast Steel,.....per inch, \$1.00

**No. 137.      LANTERN CHISELS.**

Regular Size,.....price, each, \$0.12

**No. 138.      WIRE CHISELS.**

Face,.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
Price, each,.....	\$0.08	.09	.10	.11	.12	.13	.14	.15	.17	.20	.24	.29

Circular Chisels, .....per inch, \$0.25

**No. 139.      SETT TINNERS' SOLID PUNCHES.**

1 Prick Punch.

1 Solid Punch each, No. 3, 4, 5.

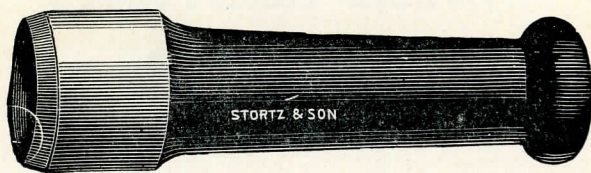
1 Wire Chisel,  $\frac{3}{4}$  inch.

1 Lantern Chisel.

Price per sett, ..... \$0.72

One sett in a box.

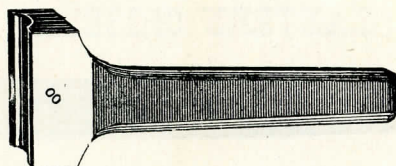
## No. 140. HOLLOW PUNCHES.



Our Punches are all Forged from Best Materials.

All sizes to and including $1\frac{3}{4}$ in. diameter,.....	per inch,	\$1.00
All sizes above $1\frac{3}{4}$ in. diameter,.....	" "	1.25
Oval Punches, per inch, measured over longest diameter,.....	" "	1.50

## No. 141. GROOVING TOOLS.



No.....	00	0	1	2	3	4	5	6	7	8
Grooves, inches,.....	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{3}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{3}{32}$
Price, each,.....	\$0.75	.75	.63	.63	.50	.50	.37	.37	.32	.32

## No. 142. SCRATCH AWLS.



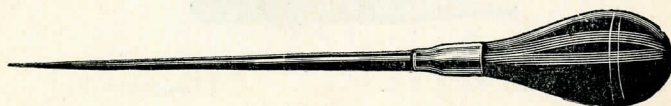
Scratch Awls, Ring end, .....per dozen, \$1.50

## No. 143. MACHINISTS' SCRATCH AWL.



Double Pointed, .....per dozen, \$1.50

## No. 144. HANDLED SCRATCH AWLS.

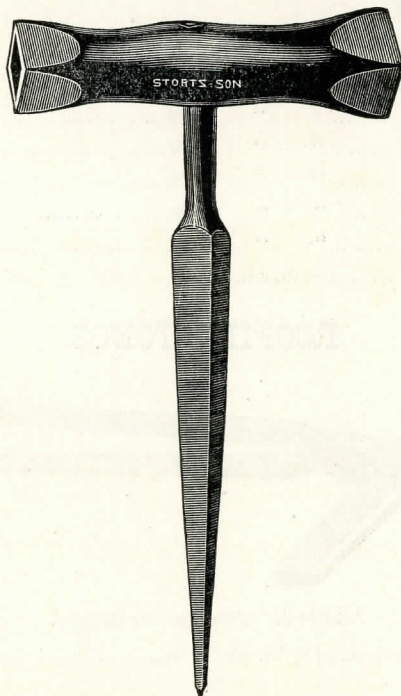


Steel Blades and Socket, .....per dozen, \$1.50

**No. 145.      TINNERS' ROOFING SCRAPERS.**

Forged from Best Quality Steel; Tempered and fully Warranted.

Per dozen, ..... \$4.50

**No. 146.      WRENCH SOCKET T REAMERS.**

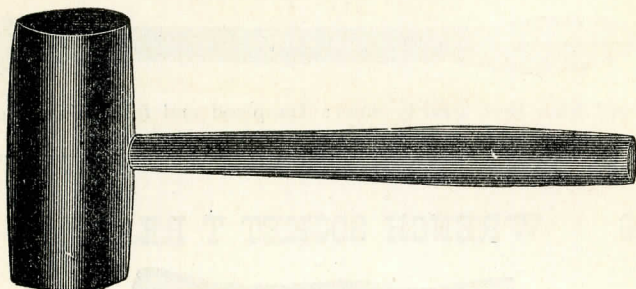
Socket Handle will turn nuts for  $\frac{1}{4}$  and  $\frac{5}{16}$  Stove Bolts; a most convenient and serviceable tool; saves time and extra tools.

Forged Steel, .....per dozen, \$8.00

**No. 147.      REAMER BITS.**

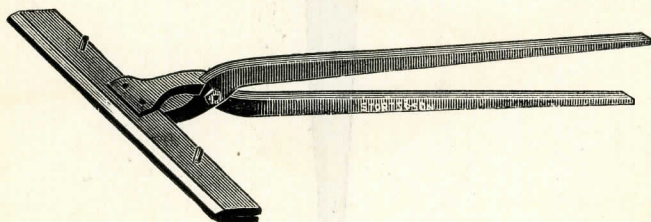
Square Shank, Best Quality, .....per dozen, \$2.50

## No. 148. TINNERS' MALLETS.



SIZE.	DOGWOOD.	HICKORY.
1 $\frac{3}{4}$ x4 $\frac{3}{4}$ ,.....	per dozen, \$1.50,.....	per dozen, \$1.25
2x5.....	“ “ 1.80,.....	“ “ 1.25
2 $\frac{1}{8}$ x5 $\frac{1}{4}$ ,.....	“ “ 2.00,.....	“ “ 1.50
2 $\frac{1}{4}$ x5 $\frac{1}{2}$ ,.....	“ “ 2.25,.....	“ “ 1.75
2 $\frac{1}{2}$ x6,.....	“ “ 2.50,.....	“ “ 2.00
2 $\frac{3}{8}$ x6,.....	“ “ 3.00,.....	“ “ 2.00
Assorted,.....	per dozen, \$20.00,.....	per gross, 13.50

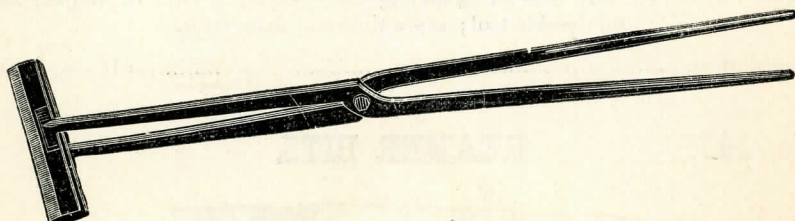
## No. 149. ROOFING TONGS.



All Steel. Quality Guaranteed.

$\frac{1}{2}$  in.,  $\frac{3}{4}$  in., 1 $\frac{1}{4}$  in., 1 $\frac{1}{2}$  in., 1 $\frac{3}{4}$  in. and 2 in.....each, \$3.00

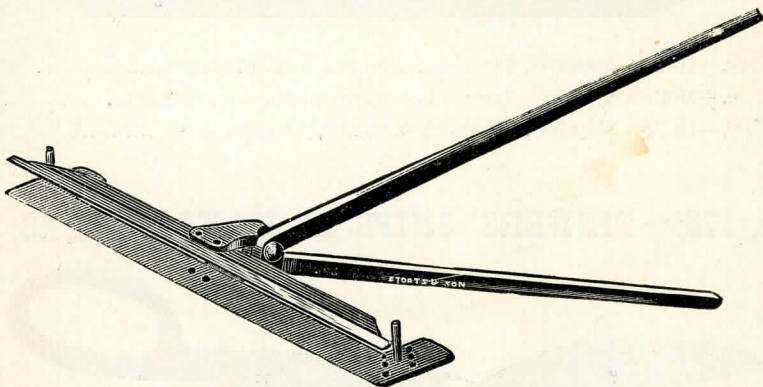
## No. 150. GUTTER TONGS.



12 in, .....price, each, \$5.00  
 14 “ ..... “ “ 5.00

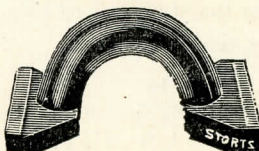
**No. 151. CLAMP TONG.**

12 inches total length, .....	price, each, \$2.80
14 " " " .....	" " 3.00
16 " " " .....	" " 3.20
18 " " " .....	" " 3.50

**No. 152. ADJUSTABLE ROOFING TONGS.**

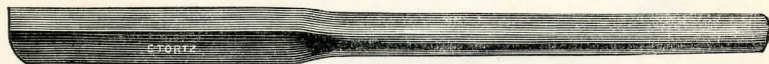
These Tongs deserve to be better known than what they are. They will do the work of six regular tongs, while the price is only a trifle higher than an ordinary one. The adjustment is made by removing pin shown on each side of the tongs, screwing them into proper hole, corresponding with the size of standing Roof Seam desired.

Price, .....each, \$4.00

**No. 154. ROOFING DOUBLE SEAMER.**

Roofing Double Seamer, to match Tongs, .....each, \$1.20

## No. 155. SOLID MANDRELS.



No. a.—Light; Ground and Polished; weight, about 45 lbs.....price per lb., \$0.12

No. b.—Medium; “ “ “ “ “ 55 “ .. “ “ .12

No. c.—Heavy; “ “ “ “ “ 63 “ .... “ “ .12

Put in length.

## No. 156. HOLLOW MANDREL.

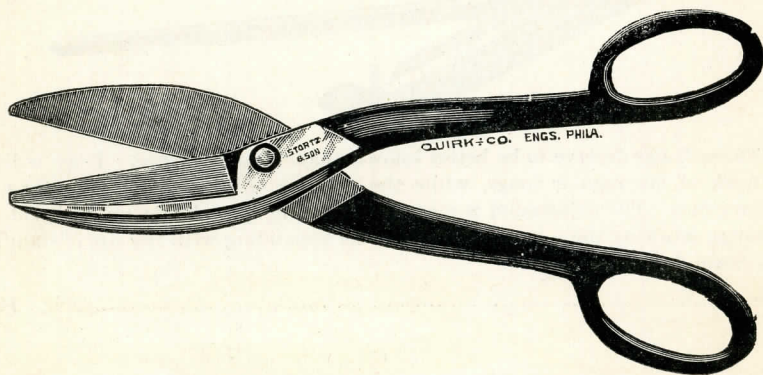


No. 000.—Hollow Mandrel, 3 feet entire length, 3 in. diameter,..... \$5.00

No. 0.—Hollow Mandrel, 3 feet 4 in. entire length, 4 in. diameter, ..... 5.50

No. 00.—Hollow Mandrel, 3 feet entire length, 4 in. diameter,..... 10.00

## No. 175. TINNERS' SNIPS OR HAND SHEARS.

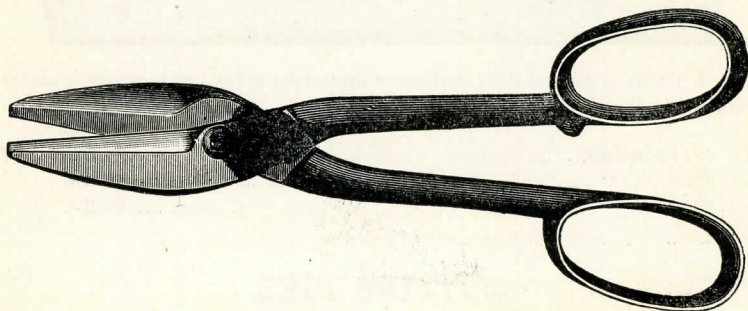


Laid with heavy Steel; Full surface of Steel Blade; Bows or Rings on Handle the same on both sides, so that the Shear can be picked up and used with equal advantage, no matter how the same be grasped.

No.....	10	9	8	7	6½	6
Length of Jaw from centre of bolt,	2½ in.	3 in.	3½ in.	4 in.	4½ in.	5 in.
Weight, about,.....	1 lb.	1¼ lbs.	2 lbs.	3 lbs.	4 lbs	5 lbs.
Price, each,.....	\$1.40	1.50	2.00	2.50	3.00	4.50
Postage when sent by mail, extra,	.18	.25	.26	.45	.70	.85

## No. 176. COMBINATION SLIPS.

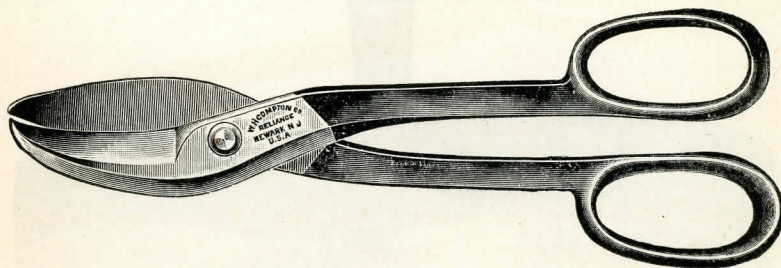
For Cutting Irregular and Straight Lines.



These Snips will cut curves, scrolls and irregular shapes, besides being adapted to the same class of work as the ordinary straight Snips. The jaws are not bent, like those of Circular Snips. They are shaped in a peculiar manner to allow the material to pass freely, when cutting curves, or changing the directions of the cut. The Combination Snips are drop-forged of best quality Cast Steel, properly hardened.

No. 17	Combination Snips,	4	in. cut,	.....	each,	\$2.50
No. 18	"	"	3½	"	.....	" 2.00
No. 19	"	"	3	"	.....	" 1.50

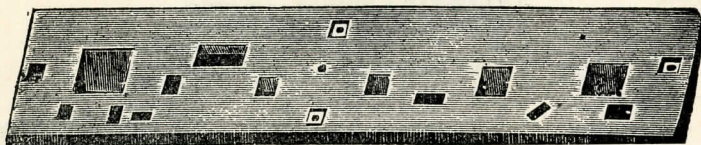
## No. 177. CIRCULAR SNIPS.



No.....	6½	7	8	9	10
Length of jaws, inches,.....	4½	4	3½	3	2½
Weight, lbs.,.....	4	2½	2½	1¾	1
Price, each,.....	\$4.25	3.50	3.00	2.50	2.25
Postage to ship by mail,.....	.70	.42	.36	.28	.20

## No. 180.

## BENCH PLATES.

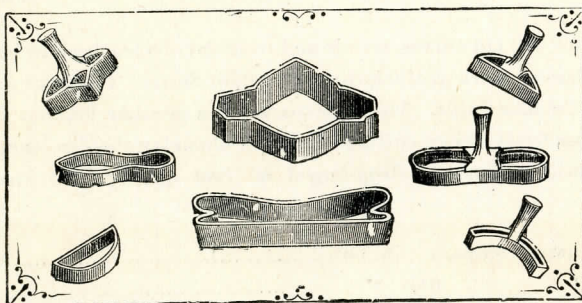


Bench Plates with polished surface, adapted for screwing to a bench and holding Stakes and Bench Shears.

	Net Wt.	
No. 0.—48x12 inches.....	60 lbs.	\$9.00
No. 1.—37x8 “ .....	45 lbs.	5.00
No. 2.—30x8 “ .....	35 lbs.	3.00

## No. 181.

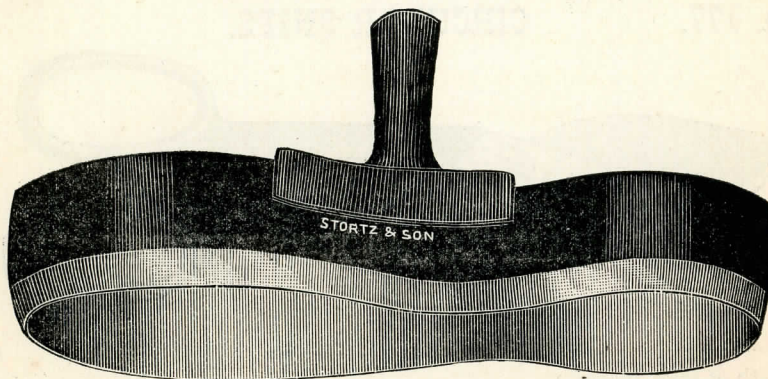
## CUTTING DIES.



Machine Knives, Chisels and Cutting Tools of every description.

## No. 182.

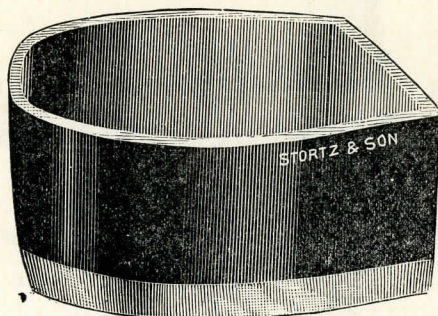
## MALLET HANDLE DIES.



For Cutting Leather, Cloth, Paper, Rubber Goods, Cards, Labels, Lithographs, Paper Boxes, Envelopes, Pocket Books, Collars and Cuffs, Suspenders, Gloves, Harness Work, Boots and Shoes, etc., etc.

No. 183.

## MACHINE DIE.



Best Quality of Steel ; Warranted true to Pattern.

Prices given on any shape of Dies, Punches or Cutters on receipt of Pattern.

No. 184.

SQUARING SHEAR BLADES and  
MACHINE KNIVES.

**Knives and Shears of all Sizes and Lengths, and Special Tools  
of every description Made to Order.**

PAPER CUTTING KNIVES,

LEATHER SPLITTING KNIVES,

PLANING MACHINE KNIVES,

BOOKBINDERS' AND CARD SHEARS,

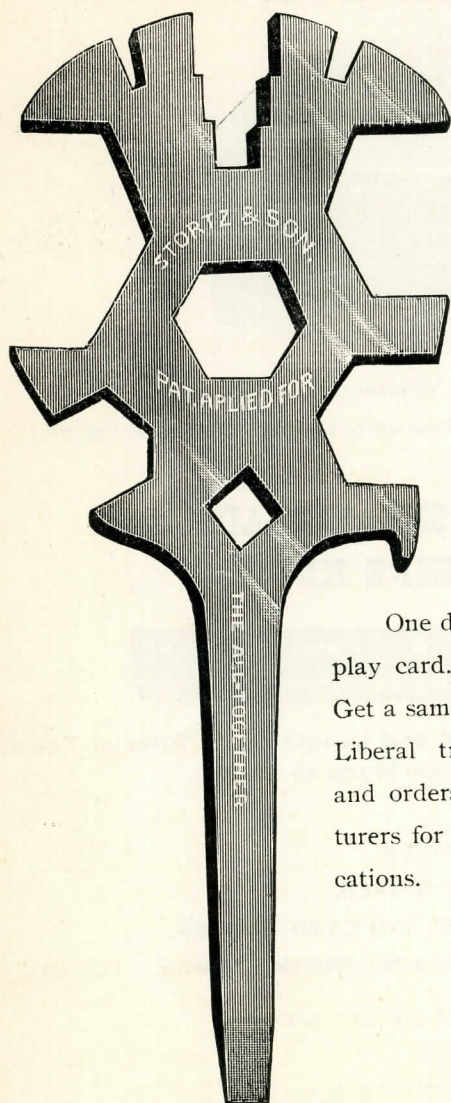
SQUARING SHEAR BLADES, ETC., ETC.

PRICES ON APPLICATION.

## GRINDING. —————

*The above and all other Knives and Shears that require true edges and bevels, GROUND CAREFULLY and ACCURATELY. Knives being kept constantly wet, the drawing of temper absolutely prevented.*

No. 185.      **THE ALL TOGETHER BICYCLE  
WRENCH and SCREW DRIVER.**



Fits in where others will not. Made of best quality Tool Steel. Thin, light, but strong. Weight, two ounces. **Most Convenient Bicycle Tool.** Combines Spanner, Nipple, Wrench, Nut Wrenches and Screw Driver.

One dozen mounted on handsome display card. Highly nicked. Sells itself. Get a sample dozen. **Retails at 25 Cents.** Liberal trade discount. Correspondence and orders solicited from bicycle manufacturers for the wrench made to their specifications.



**JOHN STORTZ & SON,**

Patentees and Manufacturers,

210 and 212 Vine St.,

Philadelphia, Pa.

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